

AMENDMENT TO THE CLAIMS

The following is a detailed listing of all claims that are, or were, in the Application.

1-29. (Canceled)

30. (Currently amended) An apparatus for processing multimedia data, the apparatus comprising:
a memory; and
a processor configured to perform operations comprising:
generating segment group information ~~tangibly embodied in a computer-readable medium describing metadata for~~ defining a segment group that includes a plurality of segments selected from in a multimedia stream, wherein said segment group information specifies comprising: a plurality of segments contained in said segment group; a group type information representing highlights from a program that share a plurality of common objects; and a duration information of for said segment group, wherein said duration information is total running time of said segment group and wherein the segment group information includes segment order information defining that two or more segments within the segment group are unordered; and
storing the segment group information in the memory.

31. (Previously presented) The apparatus of claim 30, wherein said segment group information includes a level information.

32. (Currently amended) The apparatus of claim 31, wherein said level information ~~can be described by~~ defines multiple levels.

33. (Currently amended) The apparatus of claim 30, wherein each segment

contained in the plurality of segments ~~includes~~ has a start time and an end time.

34. (Currently amended) A method for processing multimedia data segment group information describing metadata for segment group in a multimedia stream, the method comprising:

generating ~~said~~ segment group information ~~from a provider~~; and
transmitting said ~~received~~ segment group information in to a client,
wherein said segment group information ~~include~~:

defines a segment group that includes a plurality of segments selected from a multimedia stream contained in said segment group;

specifies a group type information representing highlights that share a plurality of common objects from a program; and a duration information ~~of for~~ said segment group; ~~wherein said duration information is total running time of said segment group; and~~

includes segment order information defining that two or more segments within the segment group are unordered.

35. (Previously presented) The method of claim 34, wherein said segment group information includes a level information.

36. (Currently amended) The method of claim 35, wherein said level information ~~can be described by~~ defines multiple levels.

37. (Currently amended) The method of claim 34, ~~further include wherein the segment group information defines a start time and an end time of for each segment~~ contained in the plurality of segments.

38. (Currently amended) An apparatus for processing multimedia data, the

apparatus comprising:

a memory; and

a processor configured to perform operations comprising:

receiving segment group information tangibly embodied in a computer-readable medium describing metadata for defining a segment group that includes a plurality of segments selected from in a multimedia stream, wherein said segment group information specifies comprising: a plurality of segments contained in said segment group; a group type information representing highlights from a program that share a plurality of common objects; and a duration information of for said segment group, wherein said duration information is total running time of said segment group and wherein the segment group information includes segment order information defining that two or more segments within the segment group are unordered; and

storing the segment group information in the memory.

39. (Previously presented) The apparatus of claim 38, wherein said segment group information includes a level information.

40. (Currently amended) The apparatus of claim 39, wherein said level information ~~can be described by~~ defines multiple levels.

41. (Currently amended) The apparatus of claim 38, wherein each segment contained in the plurality of segments ~~includes~~ has a start time and an end time.

42. (Currently amended) A method for processing multimedia data segment group information describing metadata for segment group in a multimedia stream, the method comprising:

receiving said segment group information from a provider; and

storing said received segment group information in a client, wherein said segment group information ~~include~~:

defines a segment group that includes a plurality of segments selected from a multimedia stream contained in said segment group;

specifies a group type information representing highlights from a program that share a plurality of common objects; and a duration information of for said segment group; wherein said duration information is total running time of said segment group; and includes segment order information defining that two or more segments within the segment group are unordered.

43. (Previously presented) The method of claim 42, wherein said segment group information includes a level information.

44. (Currently amended) The method of claim 43, wherein said level information ~~can be described by~~ defines multiple levels.

45. (Currently amended) The method of claim 42, wherein each segment contained in the plurality of segments ~~includes~~ has a start time and an end time.

46. (Currently amended) A storage medium ~~for storing~~ data configured to be processed by multimedia data processing apparatus, the stored data comprising:

segment group information describing metadata for defining a segment group that includes a plurality of segments selected from in a multimedia stream, wherein said segment group information specifies comprising a plurality of segments contained in said segment group; a group type information representing highlights from a program that share a plurality of common objects; and a duration information of for said segment group, wherein said duration information is total running time of said segment group and wherein the segment group information includes segment order information defining that two or more segments within the segment group are unordered.

47. (Previously presented) The storage medium of claim 46, wherein said segment group information includes a level information.

48. (Currently amended) The storage medium of claim 47, wherein said level information ~~can be described by~~ defines multiple levels.

49. (Currently amended) The storage medium of claim 46, ~~further including wherein the segment group information defines a start time and an end time of for each~~ segment contained in the plurality of segments.

50-53. (Cancelled)

54. (New) The apparatus of claim 30, wherein the group type indicates that the segment group is related to at least two objects represented in the multimedia stream.

55. (New) The apparatus of claim 54, wherein the segment group includes

segments representing relation changes between the at least two objects, and the segment order information defines that the segments representing relation changes are ordered.

56. (New) The apparatus of claim 55, wherein the segment group information indicates that the segment group includes segments that represent highlights from the multimedia stream.

57. (New) The apparatus of claim 54, wherein the segment group includes segments representing constant relations between the at least two objects, and the segment order information defines that the segments representing constant relations are unordered.